ext Version

verview

-Utilities

elp | FAQ utorial ew/Noteworthy

ntrez PubMed

ubMed Services ournals Database eSH Database

ngle Citation Matcher

atch Citation Matcher

elated Resources

rder Documents

onsumer Health

ubMed Central

LM Catalog LM Gateway

linical Alerts linicalTrials.gov

OXNET

linical Queries nkOut

ubby







Entrez	PubMed	Nucleotide	Protein	Genome	Structi		PMC	Journals	Book
Search	PubMed	for			***************************************	Go	Clear		
		☑ Limits	Preview/Index		History	Clipboard	De	etails	
bout Entr	ez	Display, Abstrac	ot .	9	Show: 20	Sort	Send to	Text	

☐ 1: Glycoconj J. 1995 Dec;12(6):755-61.

Related Articles, L

Large-scale expression of recombinant sialyltransferases and comparison their kinetic properties with native enzymes.

Williams MA, Kitagawa H, Datta AK, Paulson JC, Jamieson JC.

Cytel Corporation, San Diego, California 92121, USA.

Values of Km were determined for three purified sialyltransferases and the correspondin recombinant enzymes. The enzymes were Gal beta 1-4GlcNAc alpha 2-6 sialyltransferas and Gal beta 1-3(4)GlcNAc alpha 2-3 sialyltransferase from rat liver; these enzymes are responsible for the attachment of sialic acid to N-linked oligosaccharide chains; and the beta 1-3GalNAc alpha 2-3 sialyltransferase from porcine submaxillary gland that is responsible for the attachment of sialic acid to O-linked glycoproteins and glycolipids. A procedure for the large scale expression of active sialyltransferases from recombinant baculovirus-infected insect cells is described. For the liver enzymes values of Km were determined using rat and human asialo alpha 1 acid glycoprotein and N-acetyllactosamin as variable substrates; lacto-N-tetraose was also used with the Gal beta 1-3(4)GlcNAc alpha 2-3 sialyltransferases. Antifreeze glycoprotein was used as the macromolecular acceptor for the porcine enzyme. Values for Km were also determined using CMP-NeuA as the variable substrate.

PMID: 8748151 [PubMed - indexed for MEDLINE]

Dioploy		OO EE	0-4	0	T4
DISDIAY I ADSII ACI	Show	20 y	Sort	Sena to	l ext
	DIIO W.	2000		al and the second secon	

Write to the Help Desk

NCBI | NLM | NIH

Department of Health & Human Services

Privacy Statement | Freedom of Information Act | Disclaimer

Sep 21 2004 15:

cb hg e e e fcg c e e e b b e b



Search PubMed

▼ Limits

Preview/Index

for

PubMed

Nucleotide

Genome

$\mathsf{Pub} \square \mathsf{ed}$

of Medic Natio Libr

cine	Ty.	mal
NLN		
2		

Clear Structure MIMO

PMC

Journals

Books

G

Details

Send to ext

Display Abstract

Show: |20 History

1

Sort

Clipboard

About Entrez

Text Version

□ 1: Biochim Biophys Acta. 1995 May 11;1244(1):216-22

Related Articles, Lin

Molecular cloning and expression of chick Gal beta 1,3GalNAc alpha 2,3-sialyltransferase

Kurosawa N, Hamamoto T, Inoue M, Tsuji S.

Help | FAQ

Tutonal

Overview Entrez PubMed

Frontier Research Program, Institute of Physical and Chemical Research (RIKEN), Saitama, Japan

with an immunoglobulin signal peptide sequence. This enzyme expressed in COS-7 cells exhibited transferase activity similar t recombinant sialyltransferase in which the N-terminal part including the cytoplasmic tail and signal anchor domain was replace ST3Gal I gene was expressed in early embryonic stages. The identity of the enzyme was confirmed by construction of a acid sequence showed 64% identity with that of the mouse enzyme. Northern blot analysis of chick embryos revealed that the that of mouse ST3Gal I. brain cDNA library. The cDNA sequence included an open reading frame coding for 342 amino acids, and the deduced amino A cDNA clone encoding chick Gal beta 1,3GalNAc alpha 2,3-sialyltransferase (ST3Gal I) was isolated from a chick embryo

PMID: 7766661 [PubMed - indexed for MEDLINE]

Cubby

LinkOut

Related Resources

Batch Citation Matcher Single Citation Matcher MeSH Database

Clinical Queries

PubMed Services

Journals Database

E-Utilities New/Noteworthy

Display Abstract Show: 20 🔻 Sort Send to Text 4

PubMed Central ClinicalTrials.gov Clinical Alerts **NLM Gateway NLM Catalog** Order Documents

TOXNET

Consumer Health

Privacy Statement | Freedom of Information Act | Disclaimer Department of Health & Human Services Write to the Help Desk